

# JROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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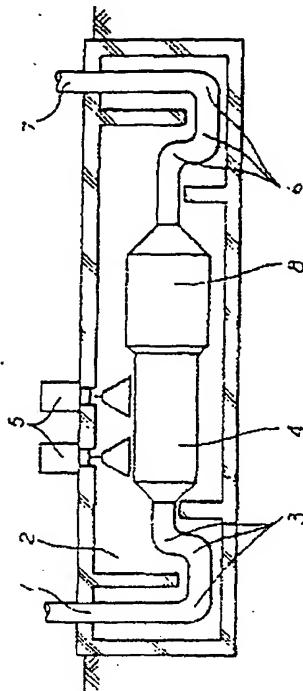
APPLICATION DATE : 04-06-87  
APPLICATION NUMBER : 62140698

APPLICANT : EBARA CORP;

INVENTOR : NAKAJIMA YOSHIO;

INT.CL. : B01D 53/34 B01D 53/32

TITLE : ELECTRON BEAM IRRADIATION  
TREATMENT DEVICE FOR EXHAUST  
GAS



ABSTRACT : PURPOSE: To efficiently desulfurize and denitrify by receiving a reactor having the space for projecting electron beam and an electrostatic precipitator directly connected to the outlet of the reactor in a radiation shelter wall, and providing a duct having  $\geq 2$  bent parts to the outlet of the electrostatic precipitator.

CONSTITUTION: An exhaust gas containing NOX, SOX is sent to the reactor 4 provided in an irradiation chamber 2 through an exhaust gas introducing pipe 1 and irradiated with the electron beam sent from an electron beam accelerator 5, and the fine powdery solids of ammonium sulfate, ammonium nitrate, etc., are produced in the gas. Then the exhaust gas is sent into the electrostatic precipitator 8 directly connected to the reactor 4 to remove the produced fine powder, and is discharged through an exhaust gas duct 7 having  $\geq 2$  bent parts 6.

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